

reduction of a selenate by hydrogen or by carbon, by the action of hydrogen selenide upon the vapours of lead chloride, and by the direct fusion in the electric furnace of precipitated lead selenide.—On the alkaline selenio-antimonites, by M. Pouget. Selenio-antimonites can be obtained of analogous composition to the sulpho-antimonites already known; mixed sulphur and selenium compounds, thioantimonites in which the sulphur is only partially replaced by selenium have also been prepared.—Micro-chemical researches on yttrium, erbium and didymium, by MM. M. E. Pozzi-Escot and H. C. Couquet.—Mechanism of the senility and death of nerve cells, by M. G. Marinisco. As the result of a study of nerve cells from the brain and spinal column of individuals of ages ranging from 60 to 110, it was found that the modifications constituting the old age of the nerve cell do not only consist of the diminution, more or less marked, of this body, but include other more interesting changes, some of which, tangible to the microscope, are described.—Heteroplastism, by M. Nicolas-Alberto Barbieri.—A determination of the conditions under which tissue from one mammal can be grafted on to another, to replace similar tissue. The results of experiments are given on the grafting of muscular, vascular, and nervous tissue.

DIARY OF SOCIETIES.

THURSDAY, MAY 3.

- ROYAL INSTITUTION, at 3.—A Century of Chemistry in the Royal Institution: Prof. J. Dewar, F.R.S.
- LINNEAN SOCIETY, at 8.—Note on the Movements in Fishes: Prof. R. J. Anderson.—On New Species of *Halimeda*, from Funafuti: Miss E. S. Barton.—On West Indian Fungi: Miss A. L. Smith.
- CHEMICAL SOCIETY, at 8.—Brazilin, Part IV.: A. W. Gilbody, W. H. Perkin, jun., and J. Yates.—Hæmatoxylin, Part V.: W. H. Perkin, jun., and J. Yates.—The Substituted Nitrogen Chlorides and Bromides derived from  $\alpha$ - and  $\beta$ -acet-toluidine and their Relation to the Substitution of Halogens in Toluidines and Toluidines: F. D. Chattaway and K. R. P. Orton.
- RÖNTGEN SOCIETY, at 8.—Demonstration and Exhibition of New Methods and Results.
- INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—If the discussion on Prof. Forbes's Paper, read on April 26, is concluded, the following Paper will be read:—The Calculations of Distributing Systems of Electric Traction under British Conditions: H. M. Sayers.

FRIDAY, MAY 4.

- ROYAL INSTITUTION, at 9.—Pottery and Plumbism: Prof. T. E. Thorpe, F.R.S.
- GEOLOGISTS' ASSOCIATION, at 8.—Some Features of the Recent Geology of Western Norway: Horace W. Monckton.
- COLD STORAGE AND ICE ASSOCIATION (Examination Hall, Victoria Embankment), at 11.30.—Recent Researches in Refrigeration: G. Halliday.—Insulation and Insulators: W. D. A. Bost.—At 3.—Electric Lighting of Cold Stores: W. B. Esson.—The Design and Construction of Buildings for Ice Factories and Cold Storage: P. Gaskell.

SATURDAY, MAY 5.

- ROYAL INSTITUTION, at 3.—Egypt in the Middle Ages: Prof. Stanley Lane-Poole.

MONDAY, MAY 7.

- SOCIETY OF ARTS, at 8.—The Incandescent Gas Mantle and its Use: Prof. Vivian B. Lewes.
- SOCIETY OF CHEMICAL INDUSTRY, at 8.—The Production of Nitrate of Soda in Chili: Dr. W. Newton.

TUESDAY, MAY 8.

- ROYAL INSTITUTION, at 3.—A Corner of Sussex: Dr. H. R. Mill.
- SOCIETY OF ARTS, at 8.—Art Metal Work: Nelson Dawson.
- ZOOLOGICAL SOCIETY, at 8.30.—A List of the Batrachians and Reptiles of the Gaboon (French Congo), with Descriptions of New Genera and Species: G. A. Boulenger, F.R.S.—On the Birds of Hainan: W. R. Ogilvie Grant.—On the Rhopalocera collected by the late Mr. John Whitehead in the Interior of the Island of Hainan: Philip Crowley.
- ROYAL PHOTOGRAPHIC SOCIETY, at 8.—The Effect of Colour on Gradation: Chapman Jones.

WEDNESDAY, MAY 9.

- SOCIETY OF ARTS, at 8.—Improvement of our Roads: A. Moresby White.
- GEOLOGICAL SOCIETY, at 8.—The Pliocene Deposits of the East of England. Part II. The Crag of Essex (Waltonian) and its Relation to that of Norfolk and Suffolk: F. W. Harmer. With a Report on the Inorganic Constituents of the Crag by Joseph Lomas.—The Salt Lake of Larnaca (Cyprus): C. V. Bellamy.
- IRON AND STEEL INSTITUTE, at 10.30.—General Meeting.—On Blowing-Engines driven by Crude Blast-Furnace Gas: Adolphe Greiner.—The Solution Theory of Iron: Baron H. von Jüpiner.—The Use of Fluid Metal in the Open-Hearth Furnace: James Riley.—Iron and Phosphorus: J. E. Stead.—The Continuous Working of the Open-Hearth Furnace: Benjamin Talbot.

THURSDAY, MAY 10.

- ROYAL SOCIETY, at 4.30.—*Probable Papers*: On the Diffusion of Gold in Solid Lead at the Ordinary Temperature: Sir W. Roberts-Austen, F.R.S.—On Certain Properties of the Alloys of the Copper-Gold Series: Sir W. Roberts-Austen, F.R.S., and Dr. T. K. Rose.—Experiments on Supposed Vascular and Visceral Factors in the Genesis of Emotion: Prof. Sherrington, F.R.S.—On the Brightness of the Corona of April 16, 1893. Preliminary Note: Prof. H. H. Turner, F.R.S.
- ROYAL INSTITUTION, at 3.—A Century of Chemistry in the Royal Institution: Prof. J. Dewar, F.R.S.
- MATHEMATICAL SOCIETY, at 5.30.—Special Meeting.—The Differential Equation whose solution is the Ratio of Two Solutions of a Linear Differential Equation: M. W. J. Fry.—A Congruence Theorem relating to Eulerian Numbers and other Coefficients: Dr. Glaisher, F.R.S.
- INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—A Frictionless Motor Meter: S. Evershed.
- IRON AND STEEL INSTITUTE, at 10.30.—Ingots for Gun Tubes and Propeller Shafts: F. J. R. Carrulla.—The Manufacture and Application of Water-Gas: Carl Dellwik.—The Equalisation of the Temperature of Hot Blast: Lawrence Gjers and Joseph H. Harrison.—The Manganese Ores of Brazil: H. Kilburn Scott.—The Utilisation of Blast-furnace Slag: Ritter Cecil von Schwarz (Liège).

FRIDAY, MAY 11.

- ROYAL INSTITUTION, at 9.—Shakespeare and True Patriotism: Sidney Lee.
- ROYAL ASTRONOMICAL SOCIETY, at 8.

SATURDAY, MAY 12.

- ROYAL INSTITUTION, at 3.—South Africa; Past and Future: Dr. Alfred P. Hillier.

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